

# A1800 ALPHA® meter style numbers



Elster has designed the A1800 ALPHA meter based on extensive metering technology and global metering standards knowledge.

## Technical details

- IEC 62053 accuracy Class 0.2 %, 0.5 %, and 1.0 %
- UV-protected, polycarbonate, IP54 enclosure
- Wide operating ranges:
  - Voltage: 46 V to 528 V
  - Current: 1 mA to 10 A (CT-connected)
  - Temperature: -40 °C to +85 °C (inside meter)
- Energy plus demand for kWh, kVARh, and kVAh
- Four-quadrant metering for export-import
- Up to 4 tariffs per day for 4 day types
- Up to 12 seasons
- Nonvolatile memory
- Easily replaceable battery located under the terminal cover
- Precision internal clock with backup timekeeping provided by super capacitor and long-life battery
- 16-segment character LCD with optional backlight
- Windows-based software with multi-language support

## Advanced features and functions

- Programmable thresholds for TR<sub>ue</sub>Q monitors
- Optional 1 MB extended memory
- Transformer and line loss compensation
- Up to 8 channels of load profile data
- Up to 32 channels of instrumentation profile data
- External power supply support

Visit the A1800 ALPHA meter product page at [www.elsterelectricity.com](http://www.elsterelectricity.com) for the latest information.

## A1800 ALPHA meter style numbers

Field numbers	1	2	3	4	5	6	7	8	9	10	11
	Z	E	3	K	F	4	R	0	0	L	P
<b>A1800 ALPHA meter</b>											
<b>Service</b>											
3-phase, 3-wire, delta or network			2								
3-phase, 4-wire, wye			3								
<b>Test amps &amp; wiring</b>											
1 A or 5 A (10 A max), transformer rated											
Symmetrical wiring				J							
Sequential wiring				K							
5 A (120 A max), direct connect-rated											
Sequential wiring				N							
<b>Main board &amp; voltage link options</b>											
All meters are 57.7 V to 480 V*											
No main board options (128 KB memory)					F						
Auxiliary power supply only (128 KB memory)					G						
Backlight only (128 KB memory)					J						
Auxiliary power supply with backlight (128 KB memory)					K						
No main board options (256 KB memory)†					L						
Auxiliary power supply only (256 KB memory)					M						
Backlight only (256 KB memory)†					N						
Auxiliary power supply with backlight (256 KB memory)					P						
Internal voltage links (256 KB memory)‡					Q						
External voltage links (256 KB memory)‡					R						
Internal voltage links with backlight (256 KB memory)‡					S						
External voltage links with backlight (256 KB memory)‡					T						
<b>Relays and extended memory</b>											
No relays and no extended memory						0					
2 relays with no extended memory (A1805 only)						2					
4 relays with no extended memory						4					
Extended memory with no relays						A					
4 relays with extended memory						E					
<b>Communication options</b>											
						ANSI		DLMS			
Optical port only					A1810	00		C0			
1 port: Internal telephone modem (ITM3)					A1810	D0		CA			
2 ports: RS-232/485§ and ITM3					A1830	RD		CD			
2 ports: RS-232/485§ and RS-232					A1860	RE		CE			
2 ports: RS-232/485§ and RS-485					A1860	RF		CF			
1 port: RS-232/485§					A1830	R0		CR			
2 ports (ACB): RS-232/485¶ and DLT645 over RS-485¶					A1880	R1		C1			
1 port: RS-232/485¶					A1830	R2					
2 ports (ACB): RS-232/485§ and Modbus over RS-485§					A1882	R3					
2 ports (ACB): RS-232/485§ and DNP over RS-485§					A1884	R4					
2 ports (ACB): RS-232/485§ and Modbus over RS-232					A1882	R5					
2 ports (ACB): RS-232/485§ and DNP over RS-232					A1884	R6					
1 port (NIC): EA_NIC					A1810	PE					
1 port (NIC): EA_NIC with last gasp					A1810	PF					
2 ports (NIC): RS-232/485§ and EA_NIC					A1830	PB					
2 ports (NIC): RS-232/485§ and EA_NIC with last gasp					A1830	PD					
<b>Miscellaneous options</b>											
						Read without power	Not enabled	Enabled			
Long terminal cover, IEC optical port, TOU battery						0		A			
Long terminal cover, ANSI optical port, TOU battery						1		B			
Long transparent terminal cover, IEC optical port, TOU battery						2		C			
Long transparent terminal cover, ANSI optical port, TOU battery						3		D			
Short terminal cover, IEC optical port, TOU battery						4		E			
Short terminal cover, ANSI optical port, TOU battery						5		F			
<b>Metering options</b>											
Watt, var, TRueQ (A1805 when combined with A1810 options)											L1
Watt, var, loss compensation, TRueQ											L3
Watt, var, load profiling, TRueQ											L5
Watt, var, loss compensation, load profiling, TRueQ											L7
Watt, var, load profiling, instrumentation profiling, TRueQ											L9
Watt, var, loss compensation, load profiling, instrumentation profiling, TRueQ											LB
Watt, var, 4-quadrant metering, TRueQ											LD
Watt, var, 4-quadrant metering, loss compensation, TRueQ											LF
Watt, var, 4-quadrant metering, load profiling, TRueQ											LH
Watt, var, 4-quadrant metering, loss compensation, load profiling, TRueQ											LK
Watt, var, 4-quadrant metering, load profiling, instrumentation profiling, TRueQ											LM
Watt, var, 4-quadrant metering, loss compensation, load profiling, instrumentation profiling, TRueQ											LP
*Voltage link options available for direct connect-rated meters only.											
†Select this option for direct connect meters without voltage links											
‡Contact Elster for availability											
§4-wire RS-485 implementation											
¶2-wire RS-485 implementation											

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